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"operating system" and task and "priority level"

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[Eliminating receive livelock in an interrupt-driven kernel-](#) [\\*stanford.edu](#) [\[PDF\]](#)

JC Mogul, KK Ramakrishnan - [userix.org](#)

... begin by describing a typical **operating system's** structure for processing and prioritizing network **tasks**. ... have a fixed Interrupt **Priority Level** (IPL), and ...

[Cited by 357](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 25 versions](#)

[Real-time scheduling theory and Ada-](#) [\\*cmu.edu](#) [\[PDF\]](#)

L Sha, JB Goodenough - [Mission-Critical Operating Systems, 1992](#) - [books.google.com](#)

... A hardware timer or the **operating system** clock interrupt ... the execution of higher priority **tasks**, **task T** executes at the highest **priority level** of all ...

[Cited by 289](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 36 versions](#)

[\[PDF\] •A Linux-based real-time operating system](#)

M Barabanov - 1997 - [citeseerx.ist.psu.edu](#)

... The REAL/IX **operating system** from MODCOMP 4] is monolithic ... the lowest **priority level**. ...

Each real-time **task** was presented to the system as an object module in the ...

[Cited by 183](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 20 versions](#)

[MANTIS OS: An embedded multithreaded operating system for wireless micro sensor platforms-](#) [\\*rosein.com](#) [\[PDF\]](#)

S Bhatti, J Carlson, H Dai, J Deng, J Rose, A ... - [Mobile Networks and Applications, 2005](#) - Springer

... head and tail pointers for each **priority level** (5 by ... MANTIS OS : AN EMBEDDED MULTITHREADED **OPERATING SYSTEM** ... Any **task** that is sufficiently long-lived during its ...

[Cited by 139](#) - [Related articles](#) - [Web Search](#) - [All 14 versions](#)

[\[PDF\] •A real-time Linux](#)

V Yodaiken, M Barabanov - [Proceedings of the Linux Applications Development and ...](#), 1997 - [www.md.e-technik.uni-rostock.de](#)

... 280 KHZ no matter what we do with the **operating system**. ... of the RT-process at a **low priority level** the process ... Note that all **task** resources are statically dened ...

[Cited by 113](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 43 versions](#)

[StarOS, a multiprocessor operating system for the support of task forces](#)

AK Jones, PJ Chansler Jr, I Durham, K Schwans, SR ... - [Proceedings of the seventh ACM symposium on Operating ...](#), 1979 - [portal.acm.org](#)

... for memory references or microcoded **operating system** functions at ... construction and execution of **task** forces and to ... called schedulers, and a **low** level mechanism ...

[Cited by 106](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

### IBM Power5 chip: A dual-core multithreaded processor- [\\*psu.edu \(PDF\)](#)

R Kalla, B Sinharoy, JM Tendler - IEEE micro, 2004 - [ieeexplore.ieee.org](#)

... threads are at the lowest run- ning **priority (level 1)**, the ... As in the dormant state, the **operating system** ... all the system's execut- ing **tasks** perform better ...

[Cited by 274](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 23 versions](#)

### The Stealth distributed scheduler

P Krueger, R Chawla - Distributed Computing Systems, 1991., 11th International ..., 1991 - [ieeexplore.ieee.org](#)

... While prioritized CPU schedulers are common, no previous **operating system** has included ...

Pages do not normally move from the **high** to the **low- priority level**. ...

[Cited by 120](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

### An overview of the real-time CORBA specification- [\\*kfupm.edu.sa \(PDF\)](#)

DG Schmidt, F Kuhns - Computer, 2000 - [ieeexplore.ieee.org](#)

... (In the figure, red indicates the **operating system** and I ... such as **high-** versus **low-priority tasks**, 1 and ... the amount of work performed at a given **priority level**. ...

[Cited by 238](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 39 versions](#)

### On using priority inheritance in real-time databases- [\\*kfupm.edu.sa \(PDF\)](#)

J Huang, JA Stankovic, K Ramamritham, D Towsley - In Proc. Real-Time Systems Symposium, 1991 - [eprints.kfupm.edu.sa](#)

... and eventually return to its original **priority level** after using ... Unlike real-time systems where **task** conlict over ... built on top of the VAX/VMS **operating system**. ...

[Cited by 96](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 13 versions](#)

### [PDF] •BERT: A scheduler for best effort and realtime tasks

A Bavier, L Peterson, D Mosberger - Department of Computer Science, Princeton University, ..., [citeseerx.ist.psu.edu](#)

... to run in the Scout **operating system** [9]; Section 3.1 ... both realtime and best effort **tasks**; Section 3.2 ... this relationship to discriminate between **high** and **low** ...

[Cited by 46](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 9 versions](#)

### Rate monotonic analysis for real-time systems- [\\*cmu.edu \(PDF\)](#)

L Sha, MH Klein, JB Goodenough - Foundations of Real-Time Computing: Scheduling and Resource ..., 1991 - [books.google.com](#)

... theory for its Hard Real-Time **Operating System** Project. ... the execution of higher priority **tasks**, task T executes at the highest **priority level** of all ...

[Cited by 80](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 8 versions](#)

### Making paths explicit in the Scout operating system- [\\*rutgers.edu \(PDF\)](#)

D Mosberger, LL Peterson - [usenix.org](#)

... may need to be done to discover **high-priority**work that ... an implementa- tion of paths in the Scout **operating system**. ... that im- plements a specific **task**, such as ...

[Cited by 295](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 46 versions](#)

### Transport system architecture services for high-performance communications systems- \*wustl.edu (PDF)

DC Schmidt, T Suda - IEEE Journal on Selected Areas in Communications, 1993 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... the protected address space of an **operating system**, application ... service that typically uses "**high**- and **low** ... directional, connectional, message, **task** Event (I ...

[Cited by 86](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 27 versions](#)

### Fixed priority pre-emptive scheduling: An historical perspective

NC Audsley, A Burns, PI Davis, KW Tindell, AJ ... - Real-Time Systems, 1995 - Springer

... and Nicholson 1993), together with detailed **low**-level analysis of ... Further, **high**-level semantic control-flow effects have ... where a process (or **task**) represents a ...

[Cited by 268](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

### Priority in DBMS resource scheduling- \*psu.edu (PDF)

MJ Carey, R Jauhari, M Livny - Proceedings of the 15th VLDB Conference, 1989 - [books.google.com](http://books.google.com)

... Here, **task** priorities are determined internally (ie ... kernel schedules the CPU; the **operating system** or DBMS ... of queries of each **priority level** running concurrently ...

[Cited by 151](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 6 versions](#)

### High-performance operating system primitives for robotics and real-time control systems- \*stevens-tech.edu (PDF)

K Schwan, T Bihari, BW Weide, G Tauhee - ACM Transactions on Computer Systems (TOCS), 1987 - [portal.acm.org](http://portal.acm.org)

... in the target parallel hardware and its **operating system**. ... models of, and constructs for, **task** scheduling and ... or those required for servicing **high**-rate actuators ...

[Cited by 58](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 12 versions](#)

### HRT-HOOD: A structured design method for hard real-time systems- \*york.ac.uk (PDF)

A Burns, AJ Wellings - Real-Time Systems, 1994 - Springer

... activities out of some more primitive "**task**" activity produces ... At a **high** level of design, a transaction ... language and the underlying **operating system** (or kernel ...

[Cited by 250](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#) - [All 16 versions](#)

### Fixed priority scheduling periodic tasks with varying execution priority- \*unican.es (PDF)

MG Harbour, MH Klein, JP Lehoczy - Real-Time Systems Symposium, 1991. Proceedings., Twelfth, 1991 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... Assumption 1: Subtasks executing at a given **priority level** can be ...  $p < r$ , has a relatively **high** priority,  $Pip$  ... The possibility that a **task**'s deadline, ...

[Cited by 158](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

### Implementing a general real-time scheduling framework in the RED-Linux real-time kernel- \*klupm.edu.sa (PDF)

YC Wang, KJ Lin - Real-Time Systems Symposium, 1999. Proceedings. The 20th ..., 1999 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... of the system builder to choose an **operating system** that may ... execute at either an upper or lower band **priority level**. ... given share as defined by the **task** execution ...

[Cited by 92](#) - [Related articles](#) - [Web Search](#) - [All 15 versions](#)

### [PS] •Real-time linux

M Barabanov, V Yodaiken - Linux journal, 1996 - lahtermaher.org

... **priority level** = 4, stack size = 3000 bytes \*//\* pass 1 to ... work to be done, the RT **operating system** runs one ... So Linux is the lowest priority **task** of the RT ...

[Cited by 71](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 11 versions](#)

### [PDF] •A library implementation of POSIX threads under UNIX

F Mueller - Proceedings of the USENIX Conference, 1993 - moss.csc.ncsu.edu

... can be used to implement Ada **tasks** or to ... have to execute at the **priority level** of the ... a true library implementation, calls to the **operating system** kernel need ...

[Cited by 188](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 20 versions](#)

### The Click modular router- •psu.edu (PDF)

E Kohler, R Morris, B Chen, J Jannotti, MF ... - ACM Transactions on Computer Systems (TOCS), 2000 - portal.acm.org

... the Click IP router to handle specialized routing **tasks**, or use ... priority levels; —fairness among the connections within each **priority level**; —RED dropping ...

[Cited by 928](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#) - [All 67 versions](#)

### On-line scheduling of hard deadline aperiodic tasks infixed-priority systems

S Ramos-Thuel, JP Lehoczky - Real-Time Systems Symposium, 1993., Proceedings., 1993 - ieeeexplore.ieee.org

... n. Aperiodic **task** execution at **priority level**  $n + 1$  is ... model permits the inclusion of many **operating system** functions and **task** synchronization using ...

[Cited by 104](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

### Emulating soft real-time scheduling using traditional operatingsystem schedulers- •psu.edu (PDF)

B Adelberg, H Garcia-Molina, B Kao - Real-Time Systems Symposium, 1994., Proceedings., 1994 - ieeeexplore.ieee.org

... with our goal of setting process priorities and then letting the **operating system** handle everything ... If a new **task** arrives and no **priority level** is available ...

[Cited by 48](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 18 versions](#)

### Borrowed-virtual-time (BVT) scheduling: supporting latency-sensitive threads in a general-purpose ...- •ucsc.edu (PDF)

KJ Duda, DR Cheriton - ACM SIGOPS Operating Systems Review, 1999 - portal.acm.org

... algorithm that allows a sin- gle **operating system** kernel to ... a strict priority scheduler would allow a **high** ... The Ui parameter prevents a periodic **task** from using ...

[Cited by 151](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 38 versions](#)

### Scheduling aperiodic tasks in dynamic priority systems- •psu.edu (PDF)

M Spuri, G Buttazzo - Real-Time Systems, 1996 - Springer

... An **operating system** capable of guaranteeing and executing **tasks** ... already "allocated" to a **priority level** corresponding to its deadline when the **task** set has ...

[Cited by 258](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 20 versions](#)

### Power-aware QoS management in web servers- •virginia.edu (PDF)

V Sharma, A Thomas, T Abdelzaher, K Skadron, Z Lu - 24th IEEE Real-Time Systems Symposium, 2003. RTSS 2003, 2003 - [ieeexplore.ieee.org](#)

... FIFO enables FIFO scheduling within each **priority level** with preemp ... to use the standard

Linux **operating system** and a ... rameters like the arrival time of the **task**. ...

[Cited by 94](#) - [Related articles](#) - [Web Search](#) - [All 17 versions](#)

### Operating system issues for continuous media- •psu.edu (PDF)

H Schulzrinne - Multimedia Systems, 1996 - Springer

... The **priority level** is adjusted only if a process exhausts ... and Layland show that, for periodic **tasks**, n ... EDF scheduling within the UNIX **operating system** has been ...

[Cited by 25](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 20 versions](#)

### [PDF] •TrueTime: Real-time control system simulation with MATLAB/Simulink

D Henriksson, A Cervin, KE Årzén - Proceedings of the Nordic MATLAB Conference, Copenhagen, ..., 2003 - [control.lth.se](#)

... The **operating system** typically uses multipro- gramming to multiplex ... a **task**, but is scheduled on a higher **priority level**. ... low signal means that the **task** is idle ...

[Cited by 37](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 2 versions](#)

### The arts real-time object model

CW Mercer, H Tokuda - Real-Time Systems Symposium, 1990. Proceedings., 11th, 1990 - [ieeexplore.ieee.org](#)

... model is more appropriate for a real-time **operating system**. ... to allow the system to manage the **task** set in ... Each thread is assigned a **priority level** which may or ...

[Cited by 33](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

### [PDF] •Sources of unbounded priority inversions in real-time systems and a comparative study of possible ...

S Davari, L Sha, Research Institute for Computing ... - ACM SIGOPS Operating Systems Review, 1992 - [ntrs.nasa.gov](#)

... **tasks** in hard real-time systems[1, 2]. In RMS, a periodic **task** with **high** rate is given higher priority. ... **high** priority **tasks** get queued up behind ...

[Cited by 36](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 5 versions](#)

### System and method for dynamic resource management across tasks in real-time operating systems

D Culbert - US Patent 5,838,968, 1998 - Google Patents

... allows for resource cooperation between time critical **high** priority **tasks** ... drive, or off-line storage used by the **operating system** to save **task** context state ...

[Cited by 24](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

### Responsive, deterministic IEEE 802.5 token ring scheduling

JK Strosnider, TE Marchok - Real-Time Systems, 1989 - Springer

... also by time- constrained **operating system** functions invoked on ... to messages within the same **priority level**. ... algorithms address periodic **task**/message scheduling ...

[Cited by 59](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

### Monitor for **priority level** of **task** in information processing system

H Soga - US Patent 4,145,735, 1979 - Google Patents

... quently shows the frequency of use of the **priority level**. ... N and the abscissa shows each **task** of priority ... possible to add on an **operating system** and interface ...

[Cited by 17](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

### Distributed scheduling of tasks with deadlines and resourcerequirements- \*googlecode.com (pdf)

K Ramamritham, JA Stankovic, W Zhao - IEEE Transactions on Computers, 1989 - [ieeexplore.ieee.org](#)

... In this section, we provide a very **high**-level overview of the algorithms. ... When NI has a **task** that is not locally guaranteed, it determines the node with the ...

[Cited by 271](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 9 versions](#)

### Operating System Modifications for Task-Based Speed and Voltage- \*kfupm.edu.sa (pdf)

JR Lorch, AJ Smith - Proceedings of the 1st international conference on Mobile ..., 2003 - [portal.acm.org](#)

... it would run even when the **operating system** was upgraded. ... in Section 2.4: we consider a **task** complete when ... the system above the idle **priority level** are blocked ...

[Cited by 48](#) - [Related articles](#) - [Web Search](#) - [All 12 versions](#)

### ... and non-preemptive scheduling and execution of program threads in a multitasking **operating system**

JA Farrell, SE Record, BK Wade - US Patent 5,247,675, 1993 - Google Patents

... be programmed to voluntarily relinquish control of its titasking **operating system**. ... have the same **priority level**. A **task** control block is ...

[Cited by 37](#) - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

### Providing differentiated levels of service in web content hosting- \*kfupm.edu.sa (pdf)

J Almeida, M Dabu, P Cao - In First Workshop on Internet Server Performance, 1998 - [eprints.kfupm.edu.sa](#)

... that originally was running on that **priority level**. ... there are many **high**-priorityrequestswaiting,whiletheuser ... running the Solaris **operating system** (version ...

[Cited by 152](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 11 versions](#)

### Performance evaluation of service differentiating Internet servers- \*psu.edu (pdf)

X Chen, P Mohapatra - IEEE Transactions on Computers, 2002 - [ieeexplore.ieee.org](#)

... each **task** is granted an appropriate **priority level** based on ... The **task** initiator T I picks up requests ... length is limited by the **operating system** constraints and ...

[Cited by 32](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 10 versions](#)

### Dynamic scheduling for soft real-time distributed object systems- \*ucr.edu (pdf)

V Kalogeraki, PM Melliar-Smith, LE Moser - Third IEEE International Symposium on Object-Oriented Real- ..., 2000 - [ieeexplore.ieee.org](#)

... **OPERATING SYSTEM** CORBA ORB CORBA ORB ... An object with **low** importance can delay the execution of a **high** importance **task**. Object importance is used to Page 3. ...

[Cited by 39](#) - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

How does control timing affect performance? Analysis and simulation of timing using Jitterbug and ... - \*lth.se (PDF)

A Cervin, D Henriksson, B Lincoln, J Eker, KE ... - IEEE Control Systems Magazine, 2003 - [ieeexplore.ieee.org](#)

... The **operating system** typically uses multi- programming to multiplex the execution of ... controller **tasks**. ... (A real implementation would include a **low**-pass filter ...

[Cited by 133](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 5 versions](#)

Operating system architecture using multiple priority light weight kernel task based interrupt ...

M Bunnell - US Patent 5,469,571, 1995 - [Google Patents](#)

... state, by the scheduler of the **operating system** kernel. ... The interrupt server **task** may further provide for ... with the present invention, the **priority level** of the ...

[Cited by 17](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[PDF] •The design of the TAO real-time object request broker

DC Schmidt, DL Levine, S Mungee - Computer Communications, 1998 - [citeseerx.ist.psu.edu](#)

... of TAO, which is our **high**-performance, real ... and maintaining distributed applications using **low**-level network ... automate common network pro- gramming **tasks** such as ...

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[PDF] •A model for an intelligent operating system for executing image understanding tasks on a ...

CH Chu, EJ Delp, LH Jamieson, HJ Siegel, FJ Weil, ... - Journal of Parallel and Distributed Computing, 1989 - [enr.colostate.edu](#)

... a unique name, an optional **priority level**, and an ... simple example image understanding **task** is presented ... parallel processor by the Intelligent **Operating System**. ...

[Cited by 26](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 6 versions](#)

[PDF] •Generalized rate-monotonic scheduling theory: A framework for developing real-time systems

L Sha, R Rajkumar, SS Sathaye - PROCEEDINGS-IEEE, 1994 - [cs.usf.hk](#)

... in our example as the station backplane and **operating system**, respectively. ... of priority inversion, which occurs when a **high** priority **task** is prevented ...

[Cited by 201](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#) - [All 4 versions](#)

Open system architecture modular tool kit for motion and machiningprocess control

NA Erol, Y Altintas, MR Ito, SS Inc, BC Burnaby - IEEE/ASME transactions on mechatronics, 2000 - [ieeexplore.ieee.org](#)

... moved to the ready queue in accordance with its **priority level**. ... be considered to be a soft real-time **operating system**. ... time is not adequate, the **task** does not ...

[Cited by 31](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 3 versions](#)

Programmable controller with multiple priority level task processing

MA Flood, MD Kalan, PN Preis, AL Peterson... - US Patent 5,193,189, 1993 - [Google Patents](#)

... 54] PROGRAMMABLE CONTROLLER WITH MULTIPLE **PRIORITY LEVEL TASK** PROCESSING [75 ... When the **operating system** accesses the location at ... than any background **tasks** to be ...

[Cited by 43](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

### Scheduling techniques for reducing leakage power in hard real-time systems

YH Lee, KP Reddy, CM Krishna - Real-Time Systems, 2003. Proceedings. 15th Euromicro ..., 2003 - [ieeexplore.ieee.org](#)

... by any soft **task** executing at a **priority level** in the ... mode must be done gracefully  
under **operating system** control ... **Task** periods are selected from the range 10 ms ...

[Cited by 41](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

### Thoth, a portable real-time operating system- [ucsd.edu](#) [PDF]

DR Cheriton, MA Malcolm, LS Melen, GR Sager - 1979 - [portal.acm.org](#)

... of the new process; the default **priority level** is 0 ... **Operating system** portability  
is aimed at a problem most ... Moreover a major **task** for the manufac- turer of a ...

[Cited by 145](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 4 versions](#)

### [PDF] •Timing analysis for fixed-priority scheduling of hard real-time systems

MG Harbour, MH Klein, JP Lehoczy - IEEE Transactions on Software Engineering, 1994 - [ctr.unican.es](#)

... The cause of this phenomenon is the **high** priority accorded to  $\tau \dots P, 1 \leq j \leq m(i)$   
denote the minimum **priority level** of all of the subtasks of **task**  $\tau$  ...

[Cited by 131](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BI Direct](#) - [All 9 versions](#)

### Flexible control of parallelism in a multiprocessor PC router- [mit.edu](#) [PDF]

B Chen, R Morris - Proceedings of the 2001 USENIX Annual Technical Conference, 2001 - [usenix.org](#)

... Each **priority level** is queued separately, and the ... RFC 2401, Internet Engineering  
**Task** Force, November 1998. ... and Implementation of the 4.BSD **Operating System**. ...

[Cited by 77](#) - [Related articles](#) - [Web Search](#) - [All 33 versions](#)

### Priority inheritance in soft real-time databases

J Huang, JA Stankovic, K Ramamritham, D Towsley, B ... - Real-Time Systems, 1992 - Springer

... eventually returns to its original **priority level** after releasing ... real-time systems  
where **task** conflicts over ... the underlying VAX/VMS **operating system** real-time ...

[Cited by 73](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

### [PS] •Operating system support for coexistence of real-time and conventional scheduling

DB Golub, CARNEGIE-MELLON UNIV PITTSBURGH PA ... - 1994 - [reports-archive.adm.cs.cmu.edu](#)

... real-time applications to make full use of the hardware and **operating system**. ... policies  
use an array of 32 queues, one per **priority level**. ... **Task** priority values: ...

[Cited by 24](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 9 versions](#)

### Panoptes: scalable low-power video sensor networking technologies- [kdupm.edu.sa](#) [PDF]

W Feng, E Kaiser, WC Feng, M Le Baillif - ACM Transactions on Multimedia Computing, Communications, ..., 2005 - [portal.acm.org](#)

... that we have developed uses the Linux **operating system**. ... Within a **priority level**,  
data is dropped in order from ... to the system when moving doing multiple **tasks**. ...

[Cited by 61](#) - [Related articles](#) - [Web Search](#) - [All 13 versions](#)



### [PDF] •The performance of $\mu$ -kernel-based systems

H Hartig, M Hohmuth, J Liedtke, S Schonberg, J ... - 16th ACM Symposium on **Operating System** Principles (SOSP), 1997 - inso.tuwien.ac.at  
... problem of porting an existing mono- lithic **operating system** to a  $\mu$  ... the bottom-half  
thread on a **priority level** above that ... is im- plemented as an L4 **task**, ie an ...

[Cited by 253](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#) - [All 53 versions](#)

### Instruction level mechanisms for accurate real-time **task** scheduling- \*umich.edu

RA Volz - deepblue.lib.umich.edu

... the scheduler in a real-time **operating system** [3]. In ... several priority queues, one  
for each **priority level**. ... been proposed for specifying **task** timing information ...

[Cited by 21](#) - [Related articles](#) - [Cached](#) - [Web Search](#) - [All 6 versions](#)

### High-speed data acquisition with the Solaris and Linux operating systems

M Zilker, P Helmann - Fusion Engineering and Design, 2000 - Elsevier

... The global **priority level** (0– 159) is computed at least ... delayed until the real-time  
**task** is completed ... all the services provided by the Linux **operating system**. ...

[Cited by 8](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

### [PDF] •Emeralds-osek: A small real-time **operating system** for automotive control and monitoring

KM Zuberi, P Pillai, KG Shin, T Imai, W Nagaura, S ... - SAE transactions, 2000 - stockholm1.mit.edu

... and are evaluat- ing the use of EMERALDS-OSEK as the **operating system** for such a ...  
is more efficient, but is lim- ited to only one **task** per **priority level**. ...

[Cited by 12](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#) - [All 9 versions](#)

### Toward a discipline of real-time programming- \*europrog.ru (PDF)

N Wirth - 1977 - portal.acm.org

... The first step constitutes a **task** in "ordinary ... number of terms-might easily become  
unacceptably **high**. ... shared processor, when operating at **priority level** p, is ...

[Cited by 147](#) - [Related articles](#) - [Web Search](#) - [All 10 versions](#)

### [PDF] •User level scheduling of communicating real-time tasks

C Shen, O Gonzalez, K Ramamritham, I Mizunuma, H ... - Proceedings of the Fifth IEEE Real-Time Technology and ..., 1999 - merl.com

... four priority bands P highest P **high** P mid P ... The specic **operating system** priority  
levels these bands occupy depends ... All **tasks** of an SB application are assigned ...

[Cited by 15](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 10 versions](#)

### Worst-case execution time analysis of the RTEMS real-time operatingsystem- \*psu.edu (PDF)

A Colin, I Puaut, R IRIISA - Real-Time Systems, 13th Euromicro Conference on, 2001., 2001 - ieeeexplore.ieee.org

... **operating system** is that it contains **low** level code to ... dynamic memory management, -  
**high** level of ... by 17 mod- ules (namely initialization, **task**, interrupt, clock ...

[Cited by 52](#) - [Related articles](#) - [Web Search](#) - [All 11 versions](#)

### TOMAL-a high-level programming language for microprocessor process control applications

RB Kieburz, JL Hennessy - ACM SIGPLAN Notices, 1976 - portal.acm.org

... It may simply have a static **priority level** assigned to ... response time of the higher priority **task** can be ... employed in the design of the **operating system** for the ...

[Cited by 17](#) - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

### [PDF] •Preemptive priority based scheduling: An appropriate engineering approach

A Burns - 1993 - eprints.kfupm.edu.sa

... It should be noted that a full **operating system** is not required, only a micro-kernel

Page 4. - 4 - ... If a **high** priority **task** is now runnable then the ...

[Cited by 150](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 17 versions](#)

### Engineering and analysis of fixed priority schedulers

DI Katcher, H Arakawa, JK Strosnider - IEEE Transactions on Software Engineering, 1993 - ieeeexplore.ieee.org

... implementations, we must fully understand the mechanisms of the **operating system**

and the ... 4) An idle **task** runs at the lowest **priority level** when no other ...

[Cited by 167](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 8 versions](#)

### [CITATION] Meglos: An operating system for a multiprocessor environment

PD Gaglianella, HP Katseff - Proceedings, 1985 - Computer Society Press

[Cited by 18](#) - [Related articles](#) - [Web Search](#)

### Rate monotonic vs. EDF: Judgment day- •sssup.it (pdf)

GC Buttazzo - Real-Time Systems, 2005 - Springer

... on top of a generic priority based **operating system**, from the ... queue into several

FIFO queues, one for each **priority level**. ... case, the insertion of a **task** in the ...

[Cited by 127](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 19 versions](#)

### Dynamic resource allocation scheme for distributed heterogeneous computer systems

HT Liu, JA Silvester - US Patent 5,031,089, 1991 - Google Patents

... as best it can to do the **tasks** at hand ... all nodes are either idle (ie there is **low** traffic intensity) or are busy (ie there is **high** traffic intensity). ...

[Cited by 64](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

### Wireless sensor networks: a survey- •uece.br (pdf)

IF Akyildiz, W Su, Y Sankarasubramaniam, E Cayirci - Computer networks, 2002 - Elsevier

... 71], and the frequency re-use is **high** due to ... A multithreaded I-OS **operating system**

is run on IAMPs wireless ... Most of the sensing **tasks** require the knowledge of ...

[Cited by 3246](#) - [Related articles](#) - [Web Search](#) - [All 63 versions](#)

[\[PDF\] •An empirical evaluation of OS support for real-time CORBA object request brokers](#)

DL Levine, S Flores-Gaitan, DC Schmidt - Proceedings of the Multimedia Computing and Networking 2000 ..., 2000 - citeseerx.ist.psu.edu

... **Operating system** and compiler overview: We ran the ORB/OS benchmarks described in this paper on two real-time operating ... Both **high-** and **low-**priority clients ...

[Cited by 31](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 30 versions](#)

[\[PDF\] •ERCOS: an operating system for automotive applications](#)

S Poledna, T Mocken, J Schiemann, T Beck - 1996 - cs.umbc.edu

... also possible to implement switching points by **operating system** calls ... cooperative scheduler is treated as a single **task** at the lowest **priority level** of the ...

[Cited by 22](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 4 versions](#)

[Compiler support for software-based cache partitioning- •xupm.edu.sa \[PDF\]](#)

F Mueller - ACM Sigplan Notices, 1995 - portal.acm.org

... to create p partitions, one for each used **priority level**. ... The **operating system** also has to provide the facil ... be associated with the cache partition of one **task**. ...

[Cited by 61](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 12 versions](#)

[•POWER5 system microarchitecture](#)

B Sinharoy, RN Kalla, JM Tendler, RJ Eickemeyer, ... - IBM Journal of Research and Development, 2005 - research.ibm.com

... To the **operating system**, the chip appears as a four ... **task** than to a thread running a background **task**. ... threads are at the lowest running **priority (level 1)**, the ...

[Cited by 126](#) - [Related articles](#) - [Cached](#) - [Web Search](#) - [BL Direct](#) - [All 6 versions](#)

[\[PDF\] •Scheduling slack time in fixed priority pre-emptive systems](#)

RI Davis, KW Tindell, A Burns - 1993 - citeseerx.ist.psu.edu

... one or more **tasks** of active **priority level** i or ... data is available via the **operating system**, (typically derived from data stored in a **task** control block ...

[Cited by 195](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 18 versions](#)

[The benefits of event: driven energy accounting in power-sensitive systems](#)

F Bellosa - ... : beyond the PC: new challenges for the **operating system**, 2000 - portal.acm.org

... that should be boosted to a **priority level** above the ... If the **operating system** technology is ready to deal with a ... scheduling of hard real-time **tasks** on variable ...

[Cited by 89](#) - [Related articles](#) - [Web Search](#) - [All 7 versions](#)

[Interrupt control architecture for symmetrical multiprocessing system](#)

D Gephardt, R Mahalingaiah - US Patent 5,555,430, 1996 - Google Patents

... by the cen- tral interrupt control unit to sequentially provide broadcast interrupts to various processing units -based on their current **task** priority values. ...

[Cited by 28](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

### •Operating system support for multi-user, remote, graphical interaction

AY Wong, M Seltzer - [userix.org](#)

... The default **priority level** for foreground threads is 9 and ... with the scheduling modifications, the **task** would be ... of how the server-side **operating system** can be ...

[Cited by 15](#) - [Related articles](#) - [Cached](#) - [Web Search](#) - [All 5 versions](#)

### New results on fixed priority aperiodic servers- [psu.edu](#) (PDF)

G Bernat, A Burns - Real-Time Systems Symposium, 1999. Proceedings. The 20th ..., 1999 - [ieeexplore.ieee.org](#)

... a standard API to the **operating system**, of particular ... this hypothesis allowing a server at any **priority level**. ... However, for **task** sets where may be smaller than ...

[Cited by 48](#) - [Related articles](#) - [Web Search](#) - [All 11 versions](#)

### [PDF] •Adding instruction cache effect to schedulability analysis of preemptive real-time systems

JV Busquets-Mataix, JJ Serrano, R Ors, P Gil, A ... - 1995 - [citeseerx.ist.psu.edu](#)

... real traces, and takes into account the **operating system** im- pact ... ie **tasks** do not share the same **priority level**). ... time for the highest priority **task** is trivial ...

[Cited by 62](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 10 versions](#)

### The design, implementation and evaluation of SMART: A scheduler for multimedia applications- [kfupm.edu.sa](#) (PDF)

J Nieh, MS Lam - ACM SIGOPS Operating Systems Review, 1997 - [portal.acm.org](#)

... give interactive and real-time **tasks** bet- ter ... of the scheduler in the Solaris UNIX **operating system**. ... the applications in the default **priority level** with equal ...

[Cited by 288](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#) - [All 48 versions](#)

### The EDS parallel relational database system

P Watson, P Townsend - Parallel Database Systems, 1991 - Springer

... The Chorus **Operating System** [8] was used as a ... which simplifies the programmer's **task** and assists ... unordered communications port for each thread **priority level**). ...

[Cited by 19](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

### Method of processing an operating system in a multi-processor system

K Nakane, T Kamiuchi, H Nakanishi - US Patent 4,494,188, 1985 - Google Patents

... for processing the for an **operating system** (hereinafter abbreviated ... the execution of the user's **task** may be ... process to be executed, a **priority level** (OLVL) 520 ...

[Cited by 17](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

### Method and apparatus for optimizing user response time in a priority preemptive operating system

TC Waldron III - US Patent 5,428,739, 1995 - Google Patents

... process will set its priority to the **high**- 55 usable ... policies of said priority pre-emptive **operating system**, said **task priority level** corresponding to a ...

[Cited by 10](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

### HLA real-time extension- •insa-lyon.fr (PDF)

H Zhao, ND Georganas - Distributed Simulation and Real-Time Applications, Fifth ..., 2001 - [ieeexplore.ieee.org](#)

... Table 4 Map to **operating system** and network The **priority level** parameter can be ... priority to the am'butelinteraction updatingkending related **task**. ...

[Cited by 19](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 12 versions](#)

### The human-robot interaction **operating system**- •nasa.gov (PDF)

T Fong, C Kunz, LM Hiatt, M Bugajska - Proceedings of the 1st ACM SIGCHI/SIGART conference on Human ..., 2006 - [portal.acm.org](#)

... 1: The Human-Robot Interaction **Operating System** (HRI/OS ... working (ie, waiting for a **task** to be ... by query attributes (**priority level**, expiration time, etc.), query ...

[Cited by 23](#) - [Related articles](#) - [Web Search](#) - [All 13 versions](#)

### Fixed priority scheduling theory for hard real-time systems

JP Lehoczky, L Sha, JK Strosnider, H Tokuda - Foundations of Real-Time Computing: Scheduling and Resource ..., 1991 - [books.google.com](#)

... The ARTS **operating system** supports the scheduling theory de ... of blocking a **high priority task**, but it continues to execute at its original **priority level**. ...

[Cited by 62](#) - [Related articles](#) - [Web Search](#)

### [PDF] •Vsched: Mixing batch and interactive virtual machines using periodic real-time scheduling

B Lin, P Dinda - Proceedings of ACM/IEEE SC 2005 (Supercomputing), 2005 - [cs.northwestern.edu](#)

... kernel and requires that the hosted **operating system** be ported ... No other processes at this **priority level** are allowed ... Since a **task** can miss its deadline only at ...

[Cited by 56](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 13 versions](#)

### SIFT: Design and analysis of a fault-tolerant computer for aircraft control

JH Wensley, L Lamport, J Goldberg, MW Green, KN ... - Proceedings of the IEEE, 1978 - [ieeexplore.ieee.org](#)

... Several **low**-level techniques for fault tolerance, such ... memory 'e connected by a conventional **high** bandwidth connection ... data to each iteration of a **task** is the ...

[Cited by 374](#) - [Related articles](#) - [Web Search](#) - [All 6 versions](#)

### Evolving Mach 3.0 to a migrating thread model- •psu.edu (PDF)

B Ford, J Lepreau - Proceedings of the Winter 1994 USENIX Technical Conference ..., 1994 - [usernix.org](#)

... example, QNX20], a commercialreal-time **operating system**, supports only ... thread model, when a client **task** performs an ... inversion 13], when a **high**-priority client ...

[Cited by 116](#) - [Related articles](#) - [Web Search](#) - [All 11 versions](#)

### Using adaptive priority scheduling for service differentiation QoS-aware Web servers

MM Teixeira, MJ Santana, RHC Santana - 2004 IEEE International Conference on Performance, Computing ..., 2004 - [ieeexplore.ieee.org](#)

... allows the tuning of the **priority level** provided and ... presented demands changes in the **operating-system** kernel ... San- tana, "Analysis of **task** scheduling algorithms ...

[Cited by 14](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[\[PDF\] •Dynamic and aggressive scheduling techniques for power-aware real-time systems](#)

H Aydin, R Melhem, D Mossé, PM Alvarez - Proceedings of the 22nd IEEE Real-Time Systems Symposium ( ... , 2001 - cs.pitt.edu  
... to the best-case execu- tion time can be as **high** as 10 in ... of the "default" speed  
of 5 6 . For each **task** that is dispatched, the **operating system** sets E ...

[Cited by 260](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 15 versions](#)

[\[PDF\] •A software framework based on real-time CORBA for telerobotic systems](#)

S Bottazzi, S Caselli, M Reggiani, M Amoretti - IEEE Int'l Conf. Intelligent Robots and Systems, 2002 - citeseerx.ist.psu.edu  
... the execution of ac- tions composing the goal **task**. ... at the server is a **Priority Level**  
Round Robin ... which is available in any POSIX- compliant **operating system**. ...

[Cited by 22](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 9 versions](#)

[Processor design for portable systems- •psu.edu \[PDF\]](#)

TD Burd, RW Brodersen - The Journal of VLSI Signal Processing, 1996 - Springer  
... software will be examined for achieving the ultimate in **low-energy**, **high-performance**  
design ... the speed of computation to handle ever more demanding **tasks**. ...

[Cited by 115](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 17 versions](#)

[\[PDF\] •Resource sharing in hierarchical fixed priority pre-emptive systems](#)

PI Davis, A Burns - Proc. of IEEE RTSS'06, 2006 - cs.york.ac.uk  
... These sections may correspond to **operating system** calls or intervals ... of time during  
which there is outstanding **task** execution at **priority level** i or ...

[Cited by 26](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 6 versions](#)

[\[PDF\] •Using Windows NT for real-time applications: Experimental observations and recommendations](#)

K Ramamritham, C Shen, O Gonzalez, S Sen, SB ... - Proceedings of the Fourth IEEE Real-Time Technology and ... , 1996 - ssrc.cse.ucsc.edu  
... time applications, a real-time **operating system** ought to ... a synergistic manner, the  
needs of **tasks** having a ... class of its process and the **priority level** of the ...

[Cited by 61](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 26 versions](#)

[\[PDF\] •Switched Ethernet for factory communication](#)

J Jasperneite, P Neumann - Proc. of IEEE International Conference on Emerging ... - citeseerx.ist.psu.edu  
... In this study, **priority level** is assigned according to the ... In our scenario, the **task**  
Network Control (MT ... in the protocol stack, the **operating system**, and the ...

[Cited by 50](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 7 versions](#)

[POSIX-compatible application-defined scheduling in MaRTE OS- •unicas.es \[PDF\]](#)

MA Rivas, MG Harbour - IEEEExplore.IEEE.org  
... is currently implemented in our **operating system** MaRTE OS ... consistent scheduling of  
Ada **tasks** and C ... by a faulty scheduler executing at a lower **priority level**. ...

[Cited by 30](#) - [Related articles](#) - [Web Search](#) - [All 9 versions](#)

